

## HAZARD IDENTIFICATION CHECKLIST FOR DISTILLATION COLUMN AT PAB

Items have been marked with an X, N/A or noted as reviewed elsewhere. S. Pordes 1/25/11

<b>Cryogenics –Reviewed By Lab SSC</b>		<b>Electrical Equipment X</b>		<b>Flammable Gases or Liquids – N/A</b>	
	Beam line magnets	X	Cryo/Electrical devices	Type:	
	Analysis magnets	N/A	capacitor banks	Flow rate:	
	Target	N/A	high voltage	Capacity:	
	Bubble chamber	N/A	exposed equipment over 50 V	<b>Hazardous/Toxic Materials –N/A</b>	
<b>Pressure Vessels –Reviewed by Lab SSC</b>		<b>Other Gas Emissions X</b>		List hazardous/toxic materials planned for use in a beam line or experimental enclosure:	
	inside diameter	Type:	Nitrogen and Helium		
	operating pressure	Flow rate:	1 cfm STP		
	window material	Capacity:	3,000 cf STP		
	window thickness	<b>Radioactive Sources – N/A</b>			
<b>Vacuum Vessels – Reviewed by Lab SSC</b>			permanent installation	<b>Target Materials –N/A</b>	
	inside diameter		temporary use		Beryllium (Be)
	operating pressure	Type:			Lithium (Li)
	window material	Strength:			Mercury (Hg)
	window thickness	<b>Hazardous Chemicals – N/A</b>			Lead (Pb)
<b>Lasers –N/A</b>			Cyanide plating materials		Tungsten (W)
	Permanent installation		Scintillation Oil		Uranium (U)
	Temporary installation		PCBs		Other
	Calibration		Methane	<b>Mechanical Structures</b>	
	Alignment		TMAE	N/A	Lifting devices
type:			TEA	N/A	Motion controllers - manual
Wattage:			photographic developers	X	scaffolding/elevated platforms
class:			Other: Activated Water?		Others